MAVIC 2 PRO SPECIFICATIONS

MAVIC 2 PRO CAMERA

Sensor	1” CMOS Effective Pixels: 20 million
Lens	FOV: about 77 ° 35 mm Format Equivalent: 28 mm Aperture: f/2.8–f/11 Shooting Range: 1 m to ∞
ISO Range	Video: 100-6400 Photo: 100-3200 (auto) 100-12800 (manual)
Shutter Speed	Electronic Shutter: 8–1/8000s
Still Image Size	5472×3648
Still Photography Modes	Single shot Burst shooting: 3/5 frames Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Bias Interval (JPEG: 2/3/5/7/10/15/20/30/60s RAW:5/7/10/15/20/30/60s)
Video Resolution	4K: 3840×2160 24/25/30p 2.7K: 2688x1512 24/25/30/48/50/60p FHD: 1920×1080 24/25/30/48/50/60/120p
Max Video Bitrate	100Mbps
Color Mode	Dlog-M (10bit), support HDR video (HLG 10bit)
Supported File System	FAT32 (≤ 32 GB) exFAT (> 32 GB)

Photo Format	JPEG / DNG (RAW)
Video Format	MP4 / MOV (MPEG-4 AVC/H.264, HEVC/H.265)

AIRCRAFT

Takeoff Weight	907 g
Dimensions	Folded: 214 ×91 ×84 mm (length ×width ×height) Unfolded: 322 ×242 ×84 mm (length ×width ×height)
Diagonal Distance	354 mm
Max Ascent Speed	5 m/s (S-mode) 4 m/s (P-mode)
Max Descent Speed	3 m/s (S-mode) 3 m/s (P-mode)
Max Speed (near sea level, no wind)	72 kph (S-mode)
Max Service Ceiling Above Sea Level	6000 m
Max Flight Time (no wind)	31 minutes (at a consistent 25 kph)
Max Hovering Time (no wind)	29 minutes
Max Flight Distance (no wind)	18 km (at a consistent 50 kph)
Max Wind Speed Resistance	29–38 kph
Max Tilt Angle	35 °(S-mode, with remote controller) 25 °(P-mode)
Max Angular Velocity	200 °/s
Operating Temperature Range	-10 ℃ to 40 ℃
Operating Frequency	2.400 - 2.483 GHz 5.725 - 5.850 GHz

Transmission Power (EIRP)	2.400 - 2.483 GHz FCC：≤26 dBm CE：≤20 dBm SRRC：≤20 dBm MIC：≤20 dBm 5.725-5.850 GHz FCC：≤26 dBm CE：≤14 dBm SRRC：≤26 dBm
GNSS	GPS+GLONASS
Hovering Accuracy Range	Vertical: ± 0.1 m (when vision positioning is active) ± 0.5 m (with GPS positioning) Horizontal: ± 0.3 m (when vision positioning is active) ± 1.5 m (with GPS positioning)
Internal Storage	8 GB

SENSING SYSTEM

Sensing System	Omnidirectional Obstacle Sensing
Forward	Precision Measurement Range: 0.5 - 20 m Detectable Range: 20 - 40 m Effective Sensing Speed: ≤ 14m/s FOV: Horizontal: 40 °, Vertical: 70 °
Backward	Precision Measurement Range: 0.5 - 16 m Detectable Range: 16 - 32 m Effective Sensing Speed: ≤ 12m/s FOV: Horizontal: 60 °, Vertical: 77 °
Upward	Precision Measurement Range: 0.1 - 8 m
Downward	Precision Measurement Range: 0.5 - 11 m Detectable Range: 11 - 22 m

Sides	Precision Measurement Range: 0.5 - 10 m Effective Sensing Speed: ≤ 8m/s FOV: Horizontal: 80 °, Vertical: 65 °
Operating Environment	Forward, Backward and Sides: Surface with clear pattern and adequate lighting (lux > 15) Upward: Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.) Downward: Surface with clear pattern and adequate lighting (lux > 15) Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)

CHARGER

Input	100-240 V, 50/60 Hz, 1.8A
Output	Main: 17.6 V ⎓ 3.41 A or 17.0 V ⎓ 3.53 A USB: 5 V⎓2 A
Voltage	17.6 ±0.1 V
Rated Power	60 W

APP

Video Transmission System	OcuSync 2.0
Name	DJI GO 4
Live View Quality	Remote Controller: 720p@30fps / 1080p@30fps DJI Goggles: 720p@30fps / 1080p@30fps DJI Goggles RE: 720p@30fps / 1080p@30fps
Latency (depending on environmental conditions and mobile device)	120 - 130 ms
Max Live View Bitrate	40Mbps

GIMBAL

Mechanical Range	Tilt: -135–45 °Pan: -100–100 °
Controllable Range	Tilt: -90–30 °Pan: -75–75 °
Stabilization	3-axis (tilt, roll, pan)
Max Control Speed (tilt)	120 °/s
Angular Vibration Range	±0.01 °(Mavic 2 Pro) ±0.005 °(Mavic 2 Zoom)

INTELLIGENT FLIGHT BATTERY

Capacity	3850 mAh
Voltage	15.4 V
Max Charging Voltage	17.6 V
Battery Type	LiPo 4S
Energy	59.29 Wh
Net Weight	297 g
Charging Temperature Range	5℃ to 40℃
Max Charging Power	80 W

SUPPORTED SD CARDS

Supported SD Cards	Micro SD™ Supporting Micro SD with capacity up to 128 GB and R/W speed up to UHS-I Speed Grade 3
Recommended microSD Cards	32G Sandisk V30 Sandisk Extreme V30 Pro 64G Sandisk Extreme Pro V30

	128G Sandisk Extreme V30 Sandisk Extreme Pro V30 Kingston Canvas Go! Kingston Canvas React

FOOTNOTES

Footnotes	[1] Omnidirectional Obstacle Sensing includes left/right, up/down, and forward/backward obstacle sensing. Sensing for left/right directions is only available in ActiveTrack , POI, QuickShot and Tripod mode. Omnidirectional Obstacle Sensing does not fully cover the circumference of a 360-degree arc. And left and right obstacle sensing system only works in specific modes and environments. DJI warranty does not cover any loss caused by crashing when flying left or right, even when ActiveTrack or Tripod mode is activated. Please be aware of your surroundings and App notifications when operating the Mavic 2 to ensure safety. These specs have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended.

SMART CONTROLLER SPECIFICATIONS

OCUSYNC 2.0

Operation Frequency Range	2.400-2.4835 GHz, 5.725-5.850 GHz[1]
Max Transmission Distance (unobstructed, free of interference)	2.400-2.4835 GHz: 8 km (FCC), 4 km (CE), 4 km (SRRC), 4 km (MIC) 5.725-5.850 GHz: 8 km (FCC), 2 km (CE), 5 km (SRRC)

Transmitter Power (EIRP)	2.400-2.4835 GHz: 25.5 dBm (FCC), 18.5 dBm (CE), 19 dBm (SRRC), 18.5 dBm (MIC) 5.725-5.850 GHz: 25.5 dBm (FCC), 12.5 dBm (CE), 18.5 dBm (SRRC)

BLUETOOTH

Protocol	Bluetooth 4.2
Operation Frequency Range	2.400-2.4835 GHz
Transmitter Power (EIRP)	4 dBm (FCC), 4 dBm (CE), 4 dBm (SRRC), 4 dBm (MIC)

SUPPORTED SD CARDS

Supported SD Cards	microSD™ Supports microSD cards with a capacity of up to 128 GB and R/W speed up to UHS-I Speed Grade 3

WI-FI

Protocol	Wi-Fi Direct, Wireless Display, 802.11a/g/n/ac, Wi-Fi with 2×2 MIMO is supported
Operation Frequency Range	2.400-2.4835 GHz, 5.150-5.250 GHz 5.725-5.850 GHz
Transmitter Power (EIRP)	2.400-2.4835 GHz: 21.5 dBm (FCC), 18.5 dBm (CE) 18.5 dBm (SRRC), 20.5 dBm (MIC) 5.150-5.250 GHz: 19 dBm (FCC), 19 dBm (CE) 19 dBm (SRRC), 19 dBm (MIC)

	5.725-5.850 GHz: 21 dBm (FCC), 13 dBm (CE), 21 dBm (SRRC)

GENERAL

Battery	18650 Li-ion (5000 mAh @ 7.2 V)
Charge Type	Supports USB power adapters rated 12 V/2 A
Rated Power	15 W
Storage Capacity	ROM 16 GB + scalable (microSD)
Charging Time	2 hours (using a USB power adapter rated 12 V/2 A)
Working Time	2.5 hours
Video Output Port	HDMI Port
Power Supply Current / Voltage (USB-A port)	5 V/ 900 mA
Operation Temperature Range	-4 °to 104 °F (-20 °to 40 °C)
Storage Temperature Range	<1 month: -22 °to 140 °F (-30 °to 60 °C) 1-3 months: -22 °to 113 °F (-30 °to 45 °C) 3-6 months: -22 °to 95 °F (-30 °to 35 °C) >6 months: -22 °to 77 °F (-30 °to 25 °C)
Charging Temperature Range	41 °to 104 °F (5 °to 40 °C)
Supported Aircraft Models[2]	Mavic 2 Pro, Mavic 2 Zoom
GNSS	GPS+GLONASS
Dimensions	177.5 x 121.3 x 40 mm (antennas folded, and the control sticks unmounted)

	177.5 x 181 x 60 mm (antennas unfolded, and the control sticks mounted)
Weight	Approx. 630 g
Model	RM500

FOOTNOTES

Footnotes

1. Local regulations in some countries prohibit the use of the 5.8 GHz and 5.2 GHz frequencies. In some regions, the 5.2 GHz frequency band is only allowed for indoor use.
2. The Smart Controller will support more DJI aircraft models in the future. Please visit the official website for the latest information.